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ASSOCIATION: Ob"yedinemyy i of Nuclear Research)	lhatitut yadernykh issledov	aniy, Dubna (<u>Joint Institute</u>	
SUBMITTED: 26May64	ENCL: 00	SUB CODE: NP	9
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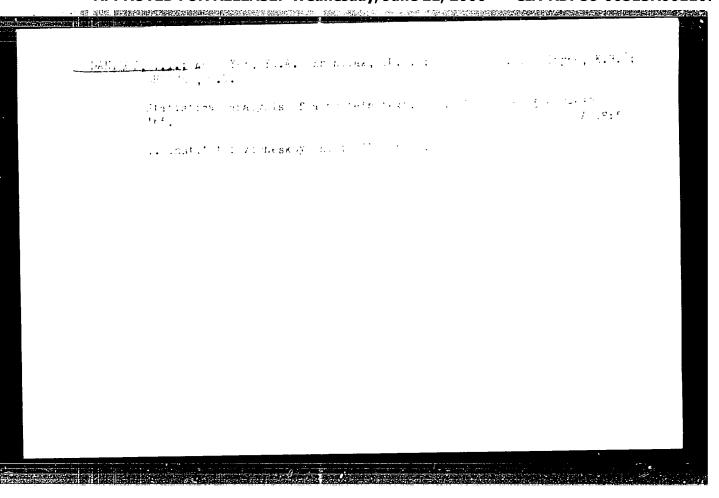
1.58859-65 EPA(W)-2/EWT(m)/EWA(m)-2 Pt-7 IJP(c) GS ACCESSION NR: AT5007941 \$/0000/64/000/000/0595/0599 AUTHOR: Danilov, V. I.: Yenchevich, I. B.; Novikov, D. L.; Polferov, E. novelle in constitution and the Newson uniti (elegation in the superior the origin of the or plane constitut the fundamental of SURCE: CATCHET COM CONTROL OF MEN BETTY Absolute on Judice 1965 From Loscow Atomicser, 1967, 1985-199 WELL LAGE STREET CONTROL TO SHEET SCHOOL STREET Motive the culture and society corol charged pay ic as in the central region of the synchrocyclotron is not adequately described by the phase equation primarily because the maximum possible energy growth per revolution is an increasing function of the radius and approaches the slit value only at radii 5-10 times larger than the aperture of the dee. The phase motion of protons in the central region of the synchrocyclotron is now obtained by solving the equations of motion of charged particles in electric and magnetic fields of an accelerator on high-speed digital computers. Considering only the motion of charged particles in the median plane of the magnetic field possessing axial symmetry, one has the following set of differential Card 1/3

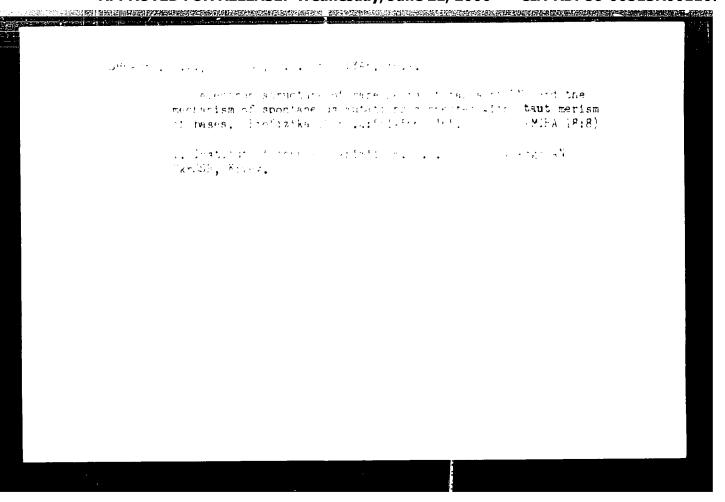
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equations (S. P. L (o. 2, Moscow _s Ato	connew and G. A. Tyagunov, in Uskoritali, G. A. mizdat, 1960): $c = A_0 (1 - \beta^2)^{1/2} [A_r (1 - r^2) - A_0 r \alpha] + \frac{\alpha}{r}$ $\ddot{\theta} = \frac{1}{r} \{ A_0 (1 - \beta^2)^{1/2} [A_0 (1 - \alpha^2) - A_r r \alpha] - \frac{\alpha}{r} \}$	
Free space, and A_{\bullet} F_{\bullet} -components	cates differentiation with respect to ct , s_0 is $=e/m_{\theta}c^{2}$; $\alpha=r\theta$; $A_{r}=S_{r}+\alpha Z_{\theta}B_{z}$; $A_{\theta}=S_{\theta}-rZ_{\theta}B_{z}$; of the electric field strength. After a number the electric field strength upon radius is replaced by $S_{r}=\frac{S_{\theta}\sin\theta}{1+\frac{\pi^{2}}{D^{2}}r^{2}\sin^{2}\theta}$.	s the impedance of a magnetic induction; a of transformations
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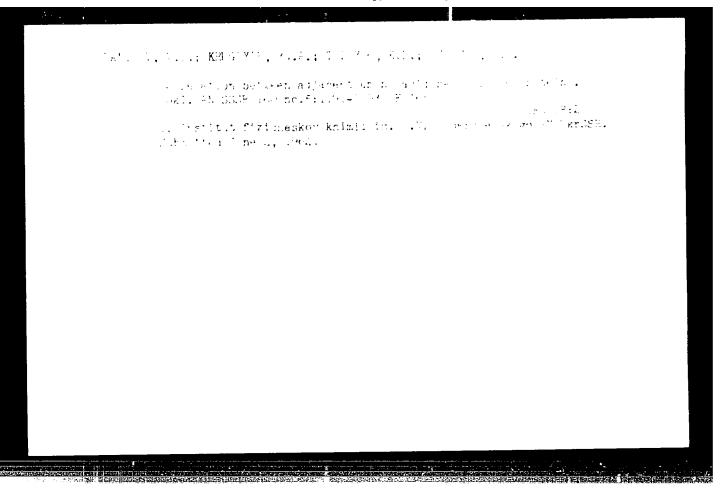
ACCESSION NR: AT5007941		J	
$E_0=U_0/D_s^s$ U_0 -amplitude of the	accelerating voltage; D-dee	aperture: wfrequency of	
revolution of an ion at the of the equations of motion (1) f the case of the OIYaI synchro obtain curves of (a) radius a gamma-coordinate for various	enter. The present report don given boundary value cond cyclotron. A high-speed dig nd phase versus time, (b) ca accelerator parameters (e.g.	iscusses the solution of itions and parameters in ital computer was used to pture effectiveness versus aperture). (c) damping of	
amplitude of radial-phasal os of \$\phi\$ versus \$\(\phi\) -phase). The to determine the effectivenes parameters and also the fon b	cillations versus redius, an e trajectories of radial-pha s of capture as a function o eam configuration during the	d (d) regions of stability se oscillations were used f various accelerator acceleration of the ions	
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amplitude of radial-phasal os of \$\psi\ versus \$\psi(\phi\ -phase)\$. The to determine the effectiveness parameters and also the fon befrom the center to a radius of ASSOCIATION: Ob"yedinemyy is of Nuclear Research)	cillations versus redius, an e trajectories of radial-pha s of capture as a function o eam configuration during the f 50 cm. Orig. art. has: 5 nstitut yadernykh issledovan	d (d) regions of stability se oscillations were used f various accelerator acceleration of the ions figures. iy, Dubna (Joint Institute	

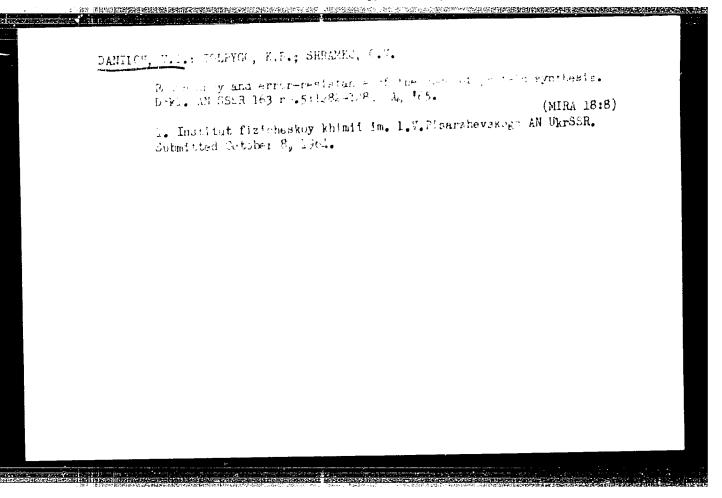
DANILOV, V.I.; YENCHEVICH, I.B.; ZAMOLODCHIKOV, B.I.; MARCHENKO, B.N.; NOVIKOV, D.L.; POLFEROV, E.A.; ROZANOV, Ye.I.; SAVENOV, A.L.; SAFONOV, A.N.

Increase in intensity of a proton beam in a six-meter synchro-cyclotron of the United Institute of Nuclear Hesearch. Atom. energ. 16 no.1:9-11 Ja '64. (MIRA 17:2)









KRUGLYAK, Yu.A.; DANILOV, V.I.; SHRAMKO, O.V.

Systems of nucleic acid base pairings. Biofizika 10 no.3; 399-403 '65. (MIRA 18:11)

1. Institut fizicheskoy khimii imeni Pisarzhevskogo AN UkrSSR, Kiyev. Submitted July 28, 1964.

DANILOV, V.I.; YENCHEVICH, I.B.; ZAMALSICHIKOV, B.I.; PCLIFEROV, F.A.;
HOZANOV, Ye.I.; SMIRNOY, V.I.; TESTOV, V.G.

Increasing the pulse duration of particle beams from a 680
Mev. OIIAI synchrocyclotron. Atom. energ. 19 no.3:2PG-292
S '65.

(MIRA 18:9)

ACC NR: AP6021991	SOURCE CODE: UR/0120/66/000/003/0019/0022
UTHOR: Danilov, V. I.; Yencher Shestov, A. V.	vich, I. B.; Rozanov, Ye. I.; Tomilina, T. N.;
PRG: <u>Joint Muclear Research In</u> Hovaniy)	stitute, Dubna (Ob"yedinennyy institut yadernykh issle-
TITLE: Control of a 680 Hev sy	nchrocyclotron //
SOURCE: Pribory i tekhnika eks	perimenta, no. 3, 1966, 19-22
OPIC TAGS: synchrocyclotron,	particle acceleration, coincidence circuit
ing conditions. A phototransductive frequency generator furnishes seed for the regulation of the generator accelerator. It is the second of modulation. The syncohototransducer pulses, are direction on the pulses are formed: these	system of control of various synchrocyclotron operat- cer, having an optico-mechanical connection with a high quare pulses of positive polarity. These pulses are us- nerator and for synchronizing the operating auxiliary A flow chart of this operation is shown. In the con- capture and acceleration of the particles occurs in each thronization pulses, coincident with the front of the ected into two channels. In the first of these, the ac- ce pulses move into the exit tube with or without time or of the high frequency generator. In the second chan-
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L 07919-67 ACC NR: AP602199			3	
lay, approximately ration of the partinization pulse, be dence circuit. At to the initial commode with damping ionic source with scheme did not except thank V. I. Ivano	y equal to half the peri	od of modulation. In requency of the start ting pulse channel, mence circuit the pulse operation of this sylof pulse width of bettime due to shutdown ng time of the accelemnt of the scelemnt. P. Sechenov for tal	stem include the single am, and operation of an using this control rator. The authors	-
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ACC NR: AT6031503 SOURCE CODE: BU/2503/66/014/000/0005/0019

AUTHOR: Danilov. V. I.: Enchevich, I. B.; Marchenko, B. N.; Polferov, E. A.; Safonov, A. N.; Shestov, A. V.

ORG: none

TITLE: Increasing the internal beam current of the synchrocyclotron of the Joint Institute for Nuclear Research by additional electrostatic focusing

SOURCE: Bulgarska akademiya na naukite. Fizicheski institut. Izvestiya na Fizicheskiya institut s ANEB, v. 14, 1966, 5-19

TOPIC TAGS: synchrocyclotron, electrostatic field, electrode, duant, accelerator, rectifier, proton current

ABSTRACT: A description is given of the effects of an electrostatic field in the central region in the synchrocyclotron of the Joint Institute of Nuclear Research upon the accelerated proton current. As a result of theoretical and experimental research, the chosen aperture of the focusing electrode is equal to the aperture of the dee. In view of the need for a stable installation for long periods of work, 30-mm gaps were established between the screens and the electrodes and a 170-mm

Card 1/2

distance was established between the dee and the electrodes. In such conditions the maximum current magnitude attained is $U_{\phi}=13$ kilovolts. As a result of the increase of focusing forces in the central region of the accelerator, the beam current on the finite radius increased from 1.1–1.2 to 2.1–2.3 μ A. In conclusion, the authors thank senior technicians V_{\bullet} I. Ivanov and V_{\bullet} V. Maksimov for the produc-

tion of the 30-kv rectifier; designer I. Kh. Nozdrin and K. A. Baycher, director of the machine shops of the Laboratory of Nuclear Problems, for their efforts in the development and production of the focusing installation, and G. I. Selivanov, chief engineer of the Laboratory of Nuclear Problems. Orig. art. has: 16 figures.

SUB CODE: 20, 09/ SUBM DATE: none/ ORIG REF: 003/

Card 2/2

B

L 01948-67 EWP(k)/EWT(d)/EWT(m)/T/EWP(w)/EWP(v)/EWP(t)/ETI IJP(c) EM/WW/JD ACC NR: AR6021887 (N) SOURCE CODE: UR/0124/66/000/003/V027/V027

AUTHOR: Danilov, V. I.

TITLE: Creep buckling of cylindrical and conical shells

SOURCE: Ref. zh. Mekhanika, Abs. 3V203

REF SOURCE: Sb. Issled. po teorii plastin i obolochek. No. 3. Kazan', Kazansk.

un-t, 1965, 244-254

TOPIC TAGS: buckling, shell buckling, cylindric shell structure, conic shell

structure

ABSTRACT: A study was made of the critical time in loading a closed cylindrical shell by axial compression combined with external pressure, utilizing linear initial physical relationships between elongation and displacement and the components of the hereditary forces with one creep center. The above deformations were expressed nonlinearly in terms of the initial deviation from the regular shape in the normal direction and in the direction of the displacement of the mean point of the surface in axial and radial directions, with retention of second-order terms. A solution

Card 1/2

L 01948-67

ACC NR: AR6021887

was obtained by an approximation method based on the Hamilton-Ostrogradskiy variation principle. Buckling in a short, thin, conical shell under axial compression was studied by an analogous method, using the corresponding equations which determine the stress functions in the preceding problem. M. I. Rozovskiy [Translation of abstract]

SUB CODE: 13, 14/

Card 2/2 yd

L 1117-66 ENT(m)/EPA(w)-2/ENA(m)-2 IJP(c) DM

ACCESSION NR: AP5023773

UR/0089/65/019/003/0289/0252

621.384.611

AUTHOR: Danilov, V. I.; Yenchevich, I. B.; Zamolodchikov, B. I.; Polferov, E. A.; Rozanov, Ye. I.; Smirnov, V. I.; Testov, V. G.

TITLE: The increase in pulse duration of the 680 MEV OIYal synchrocyclotron particle beam

SOURCE: Atomnaya energiya, v. 19, no. 3, 1965, 289-292

TOPIC TAGS: synchrocyclotron, ion acceleration, ion accelerator, MEV accelerator

ABSTRACT: In synchrocyclotrons ions are accelerated in bunches, the shape and dimensions of which are determined by radial-phase and betatron oscillations. The present authors describe a method for pulse extension which was tested on the OIYaI synchrocyclotron and yielded results summarized in Fig. 1 of the Enclosure. The method is based on the analysis of the approximate expressions for pulse duration.

 $T = \int_{r_{tt}-6r}^{r_{t}} \frac{dr}{\dot{r}_{s}(t) + \dot{q}_{s, tt}(t)}.$

Card 1/4

L 4147-66 ACCESSION NR! AP5023773

where the speed of equilibrium orbit widening is given by

$$r_0 = \frac{r_s}{1-n} \cdot \frac{1}{B_s \beta_s^3} \cdot \frac{\omega_s}{2\pi} c_0 V_0 \sin \varphi_0 =$$

$$\frac{r_s}{1-n} \cdot \frac{1}{K_s \beta_s^3 \omega_s} \cdot \frac{d\omega}{dt};$$

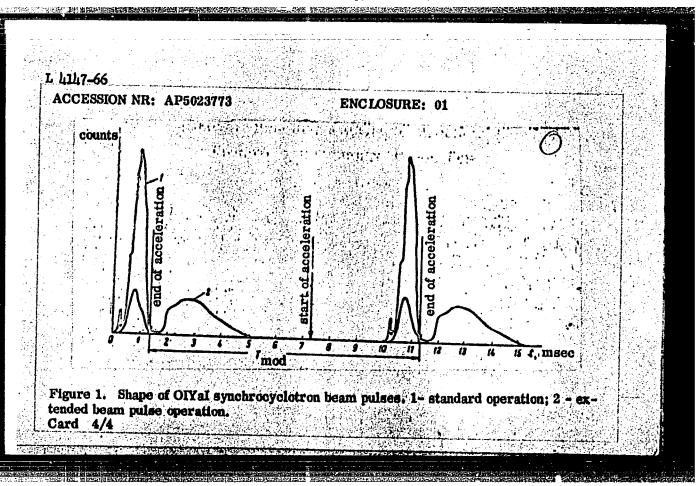
 $f_{B,M}$ (t) is velocity of displacement of the equilibrium orbit at the f_n azimuth caused by the excitation of the first harmonics of the magnetic field;

$$n = -\frac{r}{H} \cdot \frac{\partial H}{\partial r}; K = 1 + \frac{n}{1 - n} \cdot \frac{1}{\beta^2}; \beta = \frac{v}{c};$$

v, ω , E are velocity, rotational frequency, and total energy of the particle, respectively; eV₀ - maximum possible energy increment per turn; subscripts a characterize equilibrium values;

Card 2/4

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respectintery: radius	ctively. It is sho al of radial oscil (this can be ach	e maximum ampliture that the length of lation amplitudes an leved by increasing iption of the design	of the pulse may be ad by decreasing to , in time, the force	e extended by in the beam veloci ted radial oscil	icreasing the ty along the liations for	
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ASSOC	LATION: None					
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NO RE	F SOV: 001		OTHER: 006			
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DANTLOV, V. K.

DANILOV, V. K.: "Investigation of the forces and deformation in a stressed bolt joint." Leningrad Shipbuilding Inst. Leningrad, 1956.

SO: Knizhnaya letopis'
No 21, 1956. Moscow.

Carry KK.

3-1-13/32

AUTHOR:

Tatarintsev, A.S., Professor, Doctor of Biological Sciences, Danilov, V.K., Instructor of the Leningrad Shipbuilding Institute, and 6 Students of the 1st course of the Moscow Construction-Engineering Institute imeni Kuybyshev.

TITLE:

Preparing for a New Enrollment (Gotovyas'k novomu priyemu)

PERIODICAL:

Vestnik Vysshey Shkoly, 1958, # 1, pp 45-47 (U3SR)

ABSTRACT:

In connection with the enrollment of new students, the authors set forth in the article the observations they have made and submit suggestions tending to improve the present order of enrollment.

They emphasize that among the students there are persons who have no particular liking or are not qualified for the speciality chosen. The first author, therefore, suggests that discussions be arranged with the prospective students in other to find out the views of each one on his chosen speciality.

He is satisfied that the enrollment regulations of 1957 enable to accept persons with a record in practical work as it will improve the composition of the student body. The

Card 1/2

Danilov, V.K., Engineer AUTHOR:

SCV/128-78-7-12/31

TITLE:

On the Stresses and Deformations in the Components of a

Tightened Belt Connection (O napryazheniyakh i deformatsiyakh

v detalyakh zatyanutogo boltowigo soyedineniya)

PERIODICAL: Vestnik Mashinostroyeniya 1958, Nr 7, p 41 (USSR)

ABSTRACT: To determine approximately the stress distribution in the parts of a bolt connection, a segmental element between two planes through the bolt axis is replaced by a flat element of unit width so that a plane elastic problem results. The solution arising from a Fourier expansion of the load distribution under the bolt head is given without derivation. Eq (2) expresses the total compression of the components between the bolt and the nut. An approximate method for computing the load on a tightened bolt is given. There are 2 figures.

Card 1/1

DANILOY, V.K.

Determining load coefficient and stress distribution in butts in designing strained threaded joints [with summary in English].

Insh.-fiz.zhur. 1 no.8:65-72 Ag '58. (MIRA 11:8)

1.Korablestroitel'nyy institut, Leningrad.
(Pastenings)

CARLLEY, J. M., Some if Fed. Out -- (at .) "Iswest stipled the Theory of Lighty Disoled Bolt Joints," Desire, (Leningrad Daily Latining Is tit be) (AL, .-r., 117).

Problem of the rigidity of joint parts in a stressed bolted

joint and experimental solution of this problem. Izv.vys. ucheb.zav.; mashinostr. no.1:8-20 '59. (MIRA 13:3)

 Leningradskiy korablestroitel'nyy institut. (Bolts and nuts) (Strains and stresses)

SOV/122-59-6-7/27

AUTHOR:

Danilov, V.K., Engineer

TITLE:

Experimental Determination of the Yielding in the Compression of Flanges Under the Action of Bolt Tightening

Forces

PERIODICAL: Vestnik mashinostroyeniya, 1959, Nr 6, pp 25-27 (USSR)

ABSTRACT: Tests were carried out with specimens simulating flanges bolted together made of transparent plastic (TUNKKhP 530-42). M18 size bolts were used in the tests. The characteristic quantity was considered to be the ratio of bolt diameter to the combined thickness of the specimens. The thicknesses tested range between 1 and 6 diameters. The outside diameters of the specimens varied between 32 and 100 mm. A progressively increasing compression load up to 2 500 kg was applied, the material remaining in the elastic range. The modulus of elasticity of the plastic was found to be about 24 000 kg/cm2 Curves of compression against outside flange diameter are shown (Figure 1). In all cases, the compression diminishes rapidly and stabilises beyond a certain diameter. This final compression occurs beyond about 40 mm diameter at a

Card1/2

SOV/122-19-6-7/27 Experimental Determination of the Yielding in the Compression of Flanges Under the Action of Bolt Tightening Forces

在最大学生的**对外的现在,他们是对对对外的企业的**的,但是不是不是一种的现在分词,但是是不是不是一个的人,但是不是一个的人,但是是是不是的的,他们也是是一种的人,也可能是

thickness of 1 bolt diameter and be ond about 70 mm diameter at a thickness of 4 bolt diameters. The maximum compression is plotted against the hickness/diameter ratio and flattens out after about diameters. The shape of the curve agrees closely with the analytical formula obtained as a solution of the problem of pressing a round punch into an elastic semi-space. practical formula is suggested for engineering materials relating the compression as a percentage of its value at infinite thickness to the thickness/diameter ration. These recommendations are at variance with existing formulae.

There are 3 figures, 1 table and 3 Soviet references.

Card 2/2

Cyclical strength of stressed bolts and the force of preliminary tightening. Trudy LKI no.26:13-16 '59. (MIRA 14:9)

1. Kafedra detaley mashin i pod*yemno-transportnykh mashin Leningradskogo korablestroitel'nogo instituta. (Bolts and nuts)

建工作长期间**进行的联治的关键,如果实现现理由**使是的经济特别的政策是否使用指导。例如《安慰报告》中,并且由于通过经济的经历经济的政策,但是国际政策和强制的关键和通过。

S/123/61/000/001/004/015 A005/A001

Translation from: Referativnyy zhurnal, Mashinostroyeniye, 1961, No. 1, p. 31, # 1A243

AUTHOR:

Danilov, V. K.

TITLE:

The Determination of the Axial Strain of Compressed Farts in a

Stressed Bolted Joint

"Tr. Leningr. korablestroit. in-ta", 1959, No. 27, pp. 55-65 PERIODICAL:

The author presents the description and results from an experimental determination of the magnitude of axial strain of the compressed components in a stressed bolted joint (determination of \, the yielding magnitude of these components). Parts of different thicknesses were made of organic glass (the polymer of methyl ether of methacrylic acid, ultimate compression strength about 1,000 kg/cm², modulus of elasticity 19,000 - 28,000 kg/cm², Brinell hardness 14-16, Poisson ratio about 0.3). The experiments were conducted at $20 \pm {}^{\circ}$ C. The joint was made with bolts M 18. It is pointed out that the thesis on the determination of the volume of the parts jointed from the "cones of effect" was not substantiated by the tests. A formula of yielding is proposed which was obtained on the basis of the investi-

Card 1/2

CIA-RDP86-00513R001109 APPROVED FOR RELEASE: Wednesday, June 21, 2000

3/123/61/000/001/004/015 A005/A001

The Determination of the Axial Strain of Compressed Parts in a Stressed Bolted Joint

gation results:

 $L = \frac{1}{2dE} \left(-\frac{H}{d} \right)^{0.375}$

where L is the yielding sought for; 'H is the thickness of the jointed components; d is the bolt body diameter; E is the modulus of elasticity of the material of the jointed components. The investigation results can serve as criterion for the evaluation of the precision degree of the existent approximate theoretical solutions of the problem of stresses and strains in the components of the tightened bolted joint.

G. Basovskaya

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

CIA-RDP86-00513R001109 "APPROVED FOR RELEASE: Wednesday, June 21, 2000

2/123/61/019/004/006/027 A.14/A1.4

Danilov, V. K. AUTHOR:

Some dis ussion proclams of the present theory of strained threaded TITLE:

本。如此 特格氏剂的物质物的重要抗结的现在 医牵引的 医克里特氏 (1975年) 2012年12月12日 1975年 - 李永远中心的心态,他也是是这些人的心态是是这种,这种是一种人们的一种人们们们

joints

PERIODICAL: Referativnyy zmaral, Mashinostroyeniya, ro. 4, 1961, 20, abstract 4A187 ("Tr. Leningr koratlestroit in-ta", 1959, no. 29, 155-159)

The author discusses methods of determining the rigidity of the joined elements of tightened sprewed joints (axial yielding of elements). The TEXT: following problems were investigated: rypothesis on the cones of influence; Ye. B. Vitkun's (Kiyevskiy avtomotil'no-dirizhnyy institut [Kiyev Automobile and Road Institute)) suggestion to replace in the calculation of concrete screwed joints the conventional layout in which the compression stress is centered on the edges of thin plates with long regular colt heads, the author's suggestion to out out from the stressed zone a place of wiform width with it, innerent special pressure (it is assumed that all limer similar strips writh are symmetrical relative to the action of force axis will be in analogous conditions). It is pointed out that the results of the investigations carried out confirmed the

Card 1/2

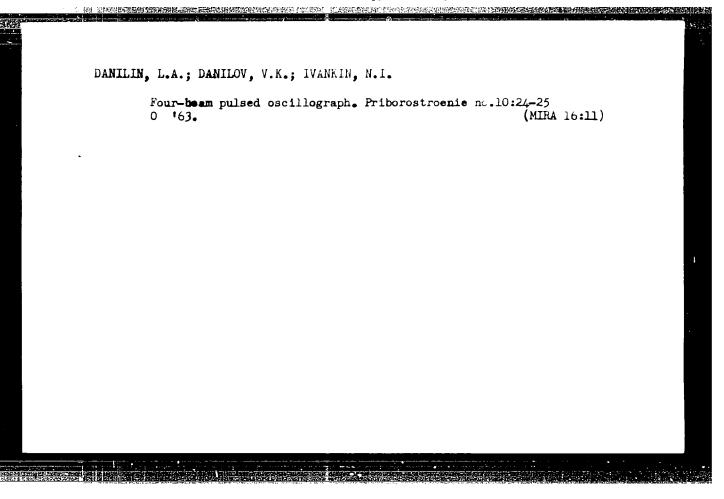
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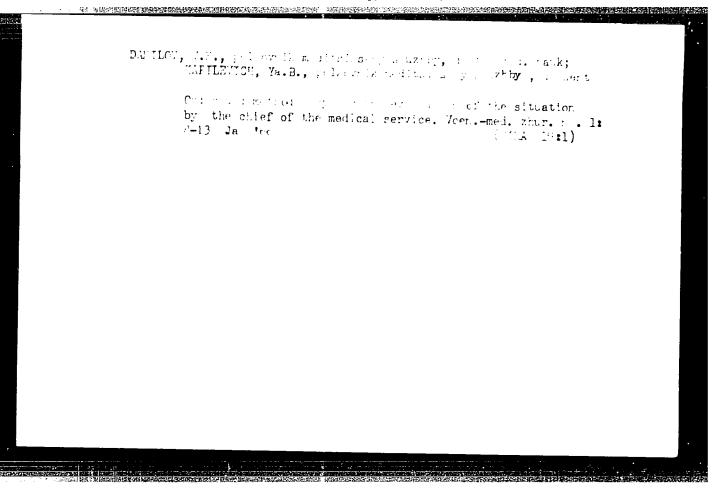
DANILOV, V.K.

Choosing the original parameters in the design of tough thread joints. Trudy LKI no.32:59-66 '60. (MIRA 15:2)

1. Kafedra detaley mashin i pod yemno-transportnykh mashin Léningradskogo korablestroitel nogo instituta.

(Bolts and nuts)





USSR/Cultivated Plants - Subtropical. Tropical.

М.

Abs Jour : Ref Zhur - Bicl., No 4, 1958, 15859

Author

: V.L. Danilov

Inst Title : An Attempt to Cultivate the Pomegranate or the Non-

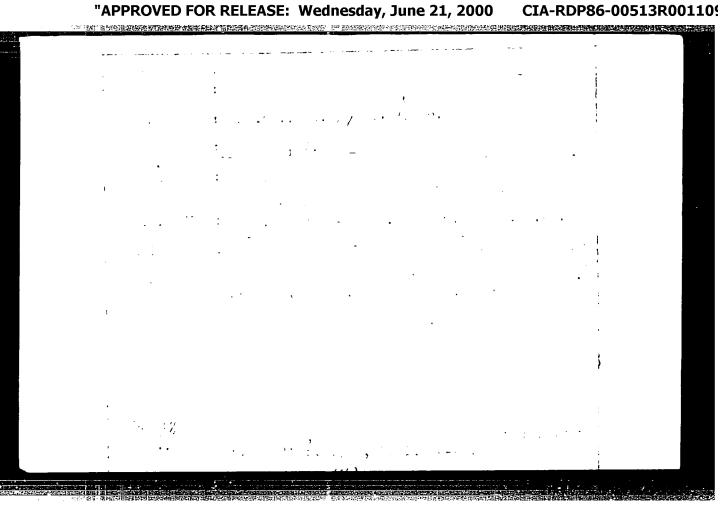
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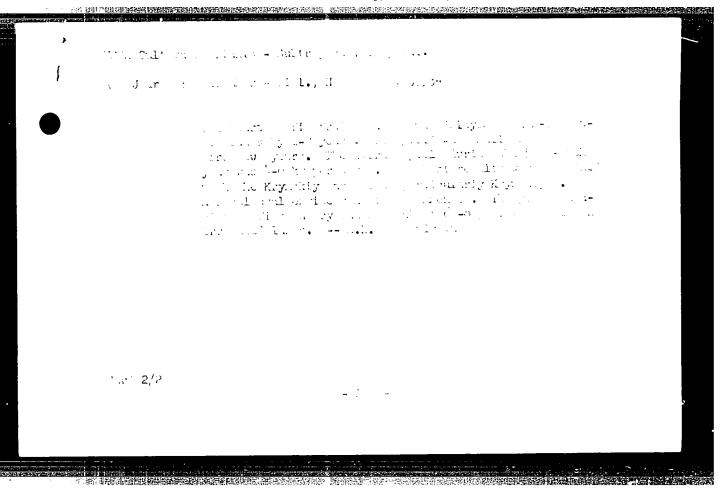
Orig Pub : S. kh. Tadzhikistana, 1956, No 10, 43-46.

Abstract : No abstract.

Card 1/1

166





S/108/63/018/001/011/011 D201/D308

AUTHORS:

Danilov, V.L. and Rodionov, V.A.

TITLE:

Bridge phase-shifter with a shift up to 180°

PERIODICAL:

Radiotekhnika, v. 18, no. 1, 1963, 72-77

TEXT: The authors describe a bridge phase-shifter which makes it possible to vary continuously the phase of its output voltage from 0 to 180°. The bridge consists of two fixed impedances and of two reactances shunted by a potentiometer the slider of which, connected to the junction of the two reactances, forms the hot terminal of the output, so that each reactance may be alternately reduced to zero. The design formulas and the circuit diagram of a practical phase shifter with two pentodes and one double-triode is given. With suitable components the device has a linear phase characteristic and an accuracy of about 1%. A special compensating device is introduced in order to improve the stability of the modulus of the transfer coefficient to within approx. 0.15 dB. There are 7 figures.

Card 1/2

S/108/63/018/001/011/011 D201/D308

Bridge phase-shifter ...

ASSOCIATION:

Nauchno-tekhnicheskoye obshchestvo radiotekhniki i e'ektrosvyazi im. A.S. Popova (Scientific and Technical Society of Radio Engineering and Electrical Communications imeni A.S. Popov) / Abstracter's note: Name of Association taken from first page of

journal_7

SUBMITTED:

July 18, 1961

Card 2/2

DANILOV, V.L. (Moscow):

"On the solution of two-dimensional Verifin's problem"

report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow, 29 Jan - 5 Feb 64.

USBR/Geophysics - Oil Wells

Thirtie is in

21 Aug 53

"Exploitation of Oil Wells in Anisotropic Strata With Bottom Water," G. S. Salekhov and V. L. Danilev, Physicotech Inst, Kazan Affli Acad Sci USSR

DAN SSSR, Vol -1, No ϵ , pp 1297-1300

Det the output Q and time T of waterless exploitation of a well for the case of stationary filtration of incompressible fluids in an anisotropic stratum. Follows N. K. Girinskiy's derivation of eqs (Opredeleniye Koeffitsiyenta Fil'tratsii

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[Determination of the Coef of Filtration], Moscow, 1950). Presented by Acad A. I. Nekrasov 21 Jun 53

DANILOV, V. L.		OF LEAST STATE OF THE STATE OF	LT MARK	24 C-24 C-34 C-34 C-34 C-34 C-34 C-34 C-34 C-3	and Rubi	
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SALEKHOV, G.S.; DANILOV, V.L.; IVANOV, N.P.; KHOVANSKIY, A.R.

Plooding of oil wells having bottom water strata. Izv. Kazan. fil. AN SSSR. Ser. fiz.-mat. i tekh. nauk no.5:16-39 '54. (MLRA 8:7)

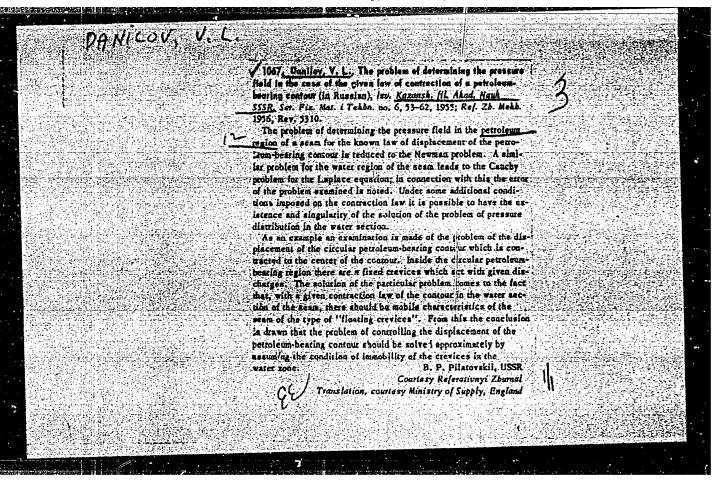
1. Fiziko-tekhnicheskiy institut Kazanskogo filiala AN SSSR. (Oil field flooding)

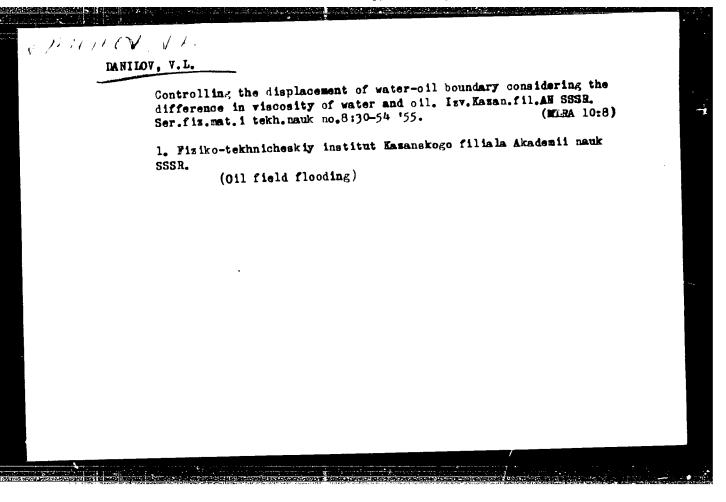
DANILOV, V.L.

Yield of oil wells with arbitrary forms of flow contour. Izv. Kazan. fil. AN SSSR. Ser. fiz.-mat. i tekh. nauk no.5:52-69 154. (MIRA 8:7)

1. Fiziko-tekhnicheskiy institut Kazanskogo filiala AN SSSR. (Petroleum engineering) (Mathematical physics)

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124 - 58 - 6 - 6886

Translation from Referativnyy zhurnal, Mekhanika. 1958. Nr 6. p 90 (USSR)

Danilov, V.L. AUTHOR

On the Displacement Control of the Contours of Oil Deposits (K TITLE zadache upravleniya peremeshcheniyem kontura neftenosnosti)

Izv Kazansk fil AN SSSR Ser fiz matem i tekhn n., PERIODICAL 1955, Nr 8, pp 55-67

The problem of the displacement control of the contour of oil ABSTRACT deposits by means of an injection shaft located in a limited, homogeneous, horizontal layer of constant thickness is studied It is assumed that the pressure at the "feeding contour" constituting the layer boundary is constant. In the solution of the problem the difference between the viscosities of the petroleum and the water is taken into consideration. Both liquids are considered incompressible. It is assumed that seepage in either respective region takes place according to a linear law tion of the wells and their yields in the petroleum-bearing portion of the layer are given. The injection shaft, which is located inside the feeding contour within the water zone, is assumed to envelop the petroleum-bearing contour. The problem is to

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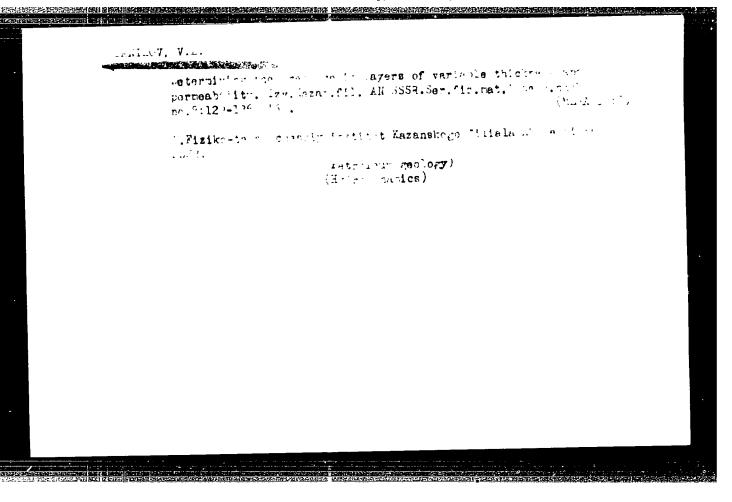
On the Displacement Control of the Contours of Oil Deposits

determine the rate of water pumping per unit length of the injection well that is required to move the contour of the petroleum deposit according to the given requirements. By making use of the boundary conditions existing on the boundary interface between the two liquids, the author reduces the problem to the solution of Fredholm's second-rank system of bi-linear integral equations. In cases where the feeding contour is absent, the problem is reduced to the solution of a single linear integral Fredholm equation of second rank. A particular case of oil-bearing contour control is examined, when the contour, located in a horizontal layer of unit thickness having constant permeability and porosity, is concentrically reduced in circumference. The solution of the appropriate system of integral equations consisting of double series is given. The uniform convergence of the series is proved. The volume of water required per unit length of the injection shaft is determined.

M. D. Rozenberg.

1. Petrole me-Control Systems - Wells-Steramber - Fig. Kr. 1994 - 1994 - 1994

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Translation from. Referativnyy zhurnal Mekhanika, 1957, Nr 3, p 93 (USSR)

AUTHOR: Danilov, V L.

TITLE: Integro-differential Equation of the Motion of the Water-petroleum

Contact Interface in a Porous Medium (integro-differentsial nove uravneniye dvizheniya vodonestvanogo kontakta v poristov srede)

PERIODICAL: Tr. 3-go Vses. matem stezda Vol 1. Moscow, AN SSSR, 1956, p 203

ABSTRACT: Bibliographic entry

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124-11-12921

Translation from: Referativnyy Zhurnal, Mekhanika, 1957, Nr II, p 91 (USSR)

Danilov, V. L. AUTHOR:

On the Simultaneous Management of Several Petroliferous Contours, TITLE:

with Due Account of the Difference in the Viscosity of the Water and the Petroleum. (Ob odnovremennom upravlenii neskol'kimi konturami neftenosnosti s uchetom razlichiva vyazkosti vody i nefti)

PERIODICAL: Izv. Kazansk, fil. A. N. SSSR, ser, fiz. -matem, i. tekhn, n., 1956, Nr9,

pp 13-33

A study is made of several methods for the solution of the problem ABSTRACT:

of the simultaneous management of several petroliferous contours in a homogeneous horizontal layer with constant capacity. It is assumed that a certain number of finite, singly connected sectors exists in the layer, each of which is saturated with a liquid having a viscosity HH (petroleum), while outside of these sectors the layer is saturated with another liquid (water) having a viscosity μ_{B} . Under the action of a number of injection and operating wells, located on the layer according to a certain pattern, the contour of each sector is displaced. It is

necessary to find the debits (withdrawal rates) of the operating wells Card 1 2

124-11-12921

On the Simultaneous Management of Several Petroliferous Contours, with Due Account of the Difference in the Viscosity of the Water and the Petroleum (continued).

for which the displacements of the various contours will approximate the optimal mode of withdrawal. The work appears to be a generalization of the well-known investigations of G. S. Salekhov (Izv. Kazansk, fil. A N SSSR, ser. fiz. matem. i tekhn. n., 1955, Nr 8, p129 -- Ref. Zhurnal, Mekhanika, 1957, Nr 6, 6761) and of the Author (Izv. Kazansk, fil. A N SSSR, ser. fiz. matem. i tekhn. n., 1955, Nr 8, pp 30-54). The well-known methods of logarithmic potential theory are supplied for the solution of the problem. The application of the method is illustrated by a numerical example of the management of the displacement of two circular petroliferous contours.

Bibliography: 11 references. (V. P. Pilatovskiy)

Card 2, 2

124-58-9 10134

Translation from: Referativnyy zhurnal Mekhanika, 1958, Nr 4, p 104 (USSR)

AUTHORS: Danilov, V. L., Salekhov, G.S., Tsybul'skiy G.P.

TITLE: Investigations on the Theory of Filtration of Liquids in Oil bearing

Sands in the Kazan Branch of the Academy of Sciences USSR 1951-1957 (Brief Survey) [Issledovaniya po teorii ili tratsii zhidkostey v neftvanykh plastakh v Kazanskom filiale Akademii

nauk SSSR v 1951-1957 gg. (Kratkiv obzor)]

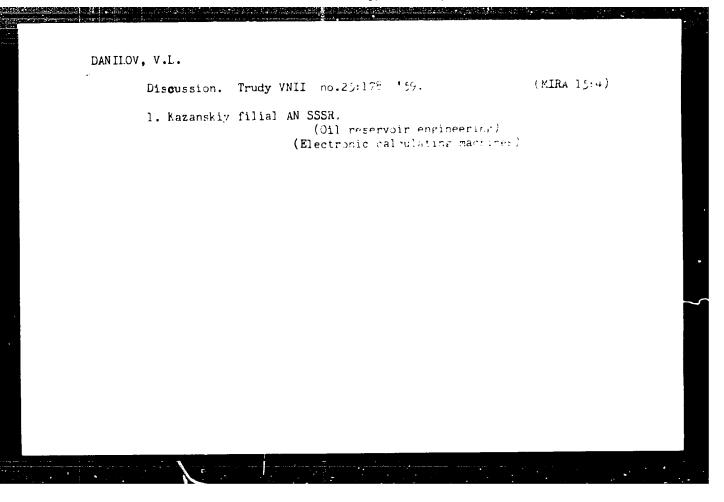
PERIODICAL: Izv. Kazansk fil AN SSSR Ser fiz matem i tekhn n

1957, Nr 11, pp 5-14

ABSTRACT: A brief survey of investigations performed by the Mathematics Section of the Institute of Engineering Physics of the Kazan Branch

Academy of Sciences, USSR on the theory of iltration During 1951-1957 the solution of the problem of controlling the displace ment of oil banks was accomplished; therein special cases were analyzed, comprising the displacement by means of the yield control of the wells alone, the disposition of the wells alone and the combined yield control and location of only a specified number of wells. A number of investigations were devoted to

Card 1/2 problems of tracking the movement of an oil bank the



DANILOV, V. L. (Moscow)

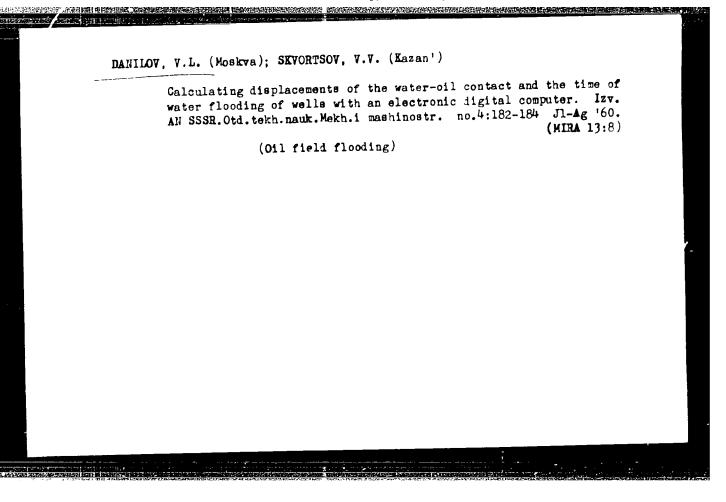
"The Motion of the Interface of Viscous Fluids in a Narrow Crack and the Outline of a Model to Study the Shift of Water-Oil Contact Surface."

"The determination of the Shifts of a Water-Oil Contact Surface and of the Period of Water-Free Operation of a Well on a Digital Computer." With y. y. Skvortsov report presented at the First All-Union Congress on Theoretical and Applied Mechanics, Moscow, 27 Jan - 3 Feb 1960.

TROYANOV, Andrey Konstantinovich; GOLUBEVA, K.A., inzh., retsenzent;
MASLIY, K.Ye., zuborez, retsenzent; ZHUKOV, M.N., red.; DAELLOV,
V.L., red. vypucks; BELYAKOV, M.N., red.; ROZEMBERG, I.A., kand.
ekon.nauk, red.; SMINNITSKIY, TeK., kand.ekon.nauk, red.; SUSTAVOV, M.L., inzh., red.; DUGIMA, N.A., tekhn.red.

[Organization of the menufacture of machinery] Kak organizoveno
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(Machinery industry)



DANILOV, V.Ir.; IVANOVA, A.N.; ISAKOVA, Y.A.K.; LYUSTERNIK, L.A.; SALEKHOV, G.S.; KHOVANSKIY, A.N.; TSLAF, L.Ta.; YANPOL'SKIY, A.R., dots.; LAPRO, A.F., red.; KKYUCHKOVA, V.N., tekhn. red.

[Mathematical analysis; functions, limits, series, comtinued fractions] Matematicheskii analiz; funktsii, predely, riady, tsepnye drobi. Moskva, Gos. izd-vo fiziko-matem. lit-ry, 1961. 439 p.

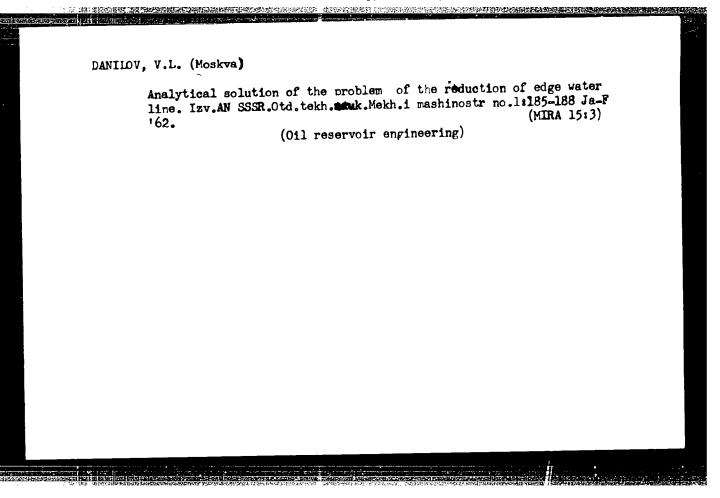
(MIRA 14:8)

1. Chlen-korrespondent AN SSSR (for Lyusternik).

(Mathematical analysis)

DANILOV. V. L., Dr. Phys-Math. Sci. (Nich) "Religible Tasks of Hydrodynamic Theory of Filtration and Hydrodynamics with Moveble Boundaries," Kazan', 1961 15 pt. (Mini tr. of Hi her and Specialized Secondary Education HSFSR. Kazan State Univ. 19 V. I. Uliyanov-Lenia), 190 copies (KL Sag, 19-61, 193

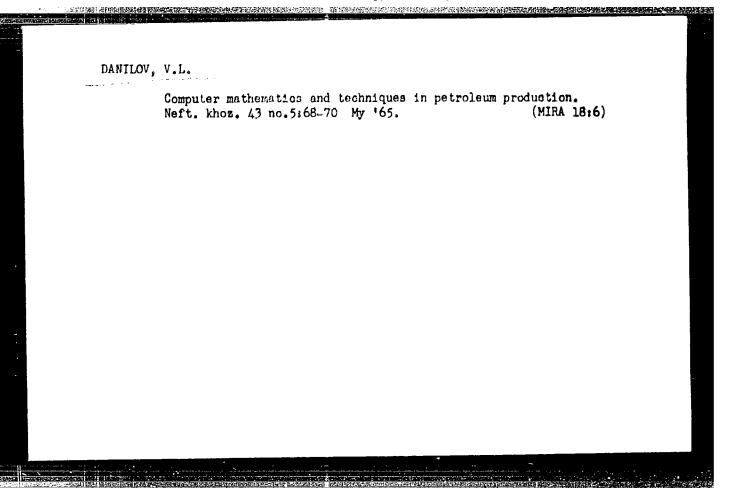
DANILLY, V.L. Movement of the segmention boundary between two viscous liquids in a narrow slit. Dokl. AN 3551 137 no.2:299-302 Mr '61. (MEA 14:2) 1. Predstavleno aka lemikem P.In. Noc ino... (Fluid dynamics)



DANILOV, V.L.; TEPLOV, Yu.A.

Modeling the contraction of an oil-water boundary on a slotted tray. Izv. Kazan. fil. AN SSSR. Ser. fiz.-mat. i tekh. nauk. bo. 15:33-44 '62. (MIRA 17:7)

1. Fiziko-tekhnicheskiy institut Kazanskogo filiala AN SSSR.

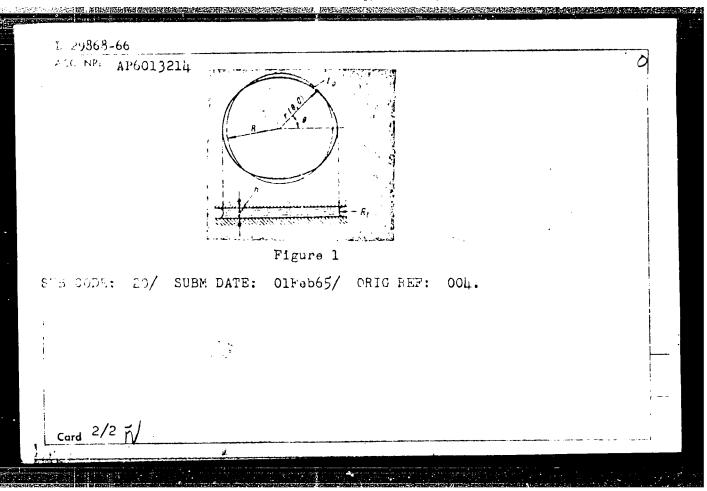


ARBUZOVA, N.I.; DANILOV, V.L.

A problem in stochastic linear programming and its stability.
Dokl. AN SSSR 162 no.1:33-35 My '65. (MIRA 18:5)

1. Vsesoyuznyy neftegazovyy nauchno-issledovatel'skiy institut.
Submitted October 23, 1964.

CITLE: Solution of the problem of the contraction of an almost circular drop of liquid under the action of interphase stress. SOURCE: AN SSSR. Izvestiya. Mekhanika zhidkosti i gaza, no. 2, 1966, 37-139 COPIC TAGS: fluid flow, hydrodynamics AGGRACT: The article considers the plane flow of a system of two viscous, irmiscible, and incompressible liquids in a narrow slot between derailed plates. The initially known interface of the liquids is characterized by the mean cross section peralled to the walls of the slot—the algoed contour \$\mathbf{T}_0\$. (See Fig. 1). The article proceeds to set up and solve the integro-differential equation for the contraction of the contour \$\mathbf{T}_0\$ and interphase stress. Sample numerical calculations based on the method are given. Orig. art, has: 7 formulas	ACC NR: AP6013214	SOURCE CODE:	JR/0421/66 <mark>/0</mark> 00/00	02/0137/01 3 9
TITLE: Solution of the problem of the contraction of an almost circular drop of liquid under the action of interphase stress. SOURCE: AN SSSR. Izvestiya. Mekhanika zhidkosti i gaza, no. 2, 1966, 137-139 FOPIC TAGS: fluid flow, hydrodynamics AGGTRACT: The article considers the plane flow of a system of two viscous, irmiscible, and incompressible liquids in a narrow slot between corallel plates. The initially known interface of the liquids is characterized by the mean cross section parallel to the walls of the slot—the closed contour V_0 . (See Fig. 1). The article proceeds to set up and solve the integre-differential equation for the contraction of the contour V_0 under the action of interphase stress. Sample numerical calculations based on the method are given. Orig. art, has: 7 formulas	AUTHOR: Danilov, V. L. (Mo	Boow, Kazan); Skvo	rtsov, E, V. (Mosco	v, Kazan') 43
FOPIC TAGS: fluid flow, hydrodynamics AGGTRACT: The article considers the plane flow of a system of two viscous, irmiscible, and incompressible liquids in a narrow slot between consider plates. The initially known interface of the liquids is characterized by the mean cross section parallel to the walls of the slot—the closed contour V_0 . (See Fig. 1). The article proceeds to set up and solve the integro-differential equation for the contraction of the contour V_0 and V_0 are solve the action of interphase stress. Sample numerical calculations based on the method are given. Orig. art, has: 7 formulas	ORG: none		.ā	र का अंग अंग्रिक
FOPIC TAGS: fluid flow, hydrodynamics ARSTRACT: The article considers the plane flow of a system of two viscous, irmiscible, and incompressible liquids in a narrow slot between consider plates. The initially known interface of the liquids is characterized by the mean cross section parallel to the walls of the slot—the closed contour To. (See Fig. 1). The article proceeds to set up and solve the integro-differential equation for the contraction of the contour Toulder the action of interphase stress. Sample numerical calculations based on the method are given. Orig. art, has: 7 formulas	TITLE: Solution of the procincular drop of liquid und	olem of the cons	raction of an al	most Iss
FOPIC TAGS: fluid flow, hydrodynamics ASSTRACT: The article considers the plane flow of a system of two viscous, irmiscible, and incompressible liquids in a narrow slot between consider plates. The initially known interface of the liquids is characterized by the mean cross section parallel to the walls of the slot—the closed contour Γ_0 . (See Fig. 1). The article proceeds to set up and solve the integro-differential equation for the contraction of the contour Γ ander the action of interphase stress. Sample numerical calculations based on the method are given. Orig. art. has: 7 formulas and 2 figures.	SOURCE: AN SSSR. Izvestiy	a. Mekhanika z	oidkosti i gaza,	no. 2, 1966,
riscous, irmiscible, and incompressible liquids in a narrow slot between carefully plates. The initially known interface of the liquids is the absoluted by the mean cross section parallel to the walls of the slot—the closed contour Γ_0 . (See Fig. 1). The article proceeds to set ap and solve the integro-differential equation for the contraction of the contour Γ under the action of interphase stress. Sample numerical calculations based on the method are given. Orig. art, has: 7 formulas	FORIC TAGS: fluid flow, by	drodynamics		
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Pg-4 IJP(c) 65 2001(d)/T/ENP(1) UR/0020/65/162/001/0033/0035 ACCESSION NR: AP5013436 AUTHOR: Arthurova; N. I. L Danilov, V. L. TITLE: One problem of stochastic linear programming and its stability SOUNCE: AN BSSR: Doklady, v. 162, no. 1, 1965, 33-35 TOPIC TAUS: Linear programming, programming ABSTRACT: It is required to minimize this linear function F(x), $x = x_1, \dots, x_n$. with these linear constraints; $\sum a_i x_i \leq b_i(\xi)$, $i = 1, \ldots, m$, are independent random quantities having a mathematical expectation by and dispersion of a A stochastically modulus & -stable solution of the convexprogramming problem is sought. The problem can be solved on a computer in an once-through manner; a solution on the average, stability analysis, isolation of A-matrix, and finding A-s matrix. The practical applications of the above programming problem include: Determination of optimal production capacity on the basis of a statistical prognosis of consumption; determination of optimal mining of raw materials on the basis of a probabilistic estimate of prospective reserves; etc. Orig. art. has: 6 formulas. Card 1/2

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- Danilov, Vasiliy Matveyevich, Semen Yakovlevich Koltunov, and Georgiy Vital'yevich Likhnitskiy
- Prakticheskoye rukovodstvo po vodorodnov naplavke babbita (Manual On Hydrogen Babbitting) Moscow, Mashgiz, 1959. 94 p. 10,000 copies printed.
- Reviewer: F.P. Voloshenko, Candidate of Technical Sciences, Docent; Ed.: M.S. Soroka; Chief Ed. (Southern Division, Mashgiz): V.K. Serdyuk, Engineer.
- PURPOSE: This manual is intended for technical personnel of machine-building plants and repair shops.
- COVERAGE: The manual discusses the lining of metal parts with babbitt and the newly developed method of utilizing a hydrogen flame for this purpose. Chemical composition of babbitt metals having a tin base or lead base is analyzed, specifications for different types of babbitt metals are given, and the operation in which each type of babbitt is employed is indicated. The method of hydrogen babbitting of bearings or other metal parts is discussed

Card 1/3

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V. Possibilities of Utilizing Hydrogen in Repair Work and in Coating Which Protects Parts Against Corrosion and Cavitation 86 VI. Protection of Workers and Safety Techniques 91 11ABLE: Library of Congress TM/jb	A. V. Possibilities of Utilizing Hydrogen in Repair Work and in Coating Which Protects Parts Against Corrosion and Cavitation 86 A. VI. Protection of Workers and Safety Techniques 91 Whilable: Library of Congress TM/jb	anual on Hydrogen (Cont.) SOV/320	00
Which Protects Parts Against Corrosion and Cavitation VI. Protection of Workers and Safety Techniques 91 11ABIE: Library of Congress TM/jb	Which Protects Parts Against Corrosion and Cavitation 86 a. VI. Protection of Workers and Safety Techniques 91 (bliography 7AIIABLE: Library of Congress TM/5b	a. IV. Requirements Pertinent to Planning a Babbitting Shop	83
liography 95 IIABLE: Library of Congress TM/Jb	Allable: Library of Congress TM/jb		ing 86
IIABLE: Library of Congress TM/jb	VAILABLE: Library of Congress	a. VI. Protection of Workers and Safety Techniques	91
TM/Jb	TM/Jb	bliography	95
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[Methods for calculating the stability of pit sides in open-cut mining] 0 metodakh rascheta ustoichivosti otkosov otkrytykh gornykh vyrabotok. Moskva, TSentr.biuro tekhn.inform., 1960. 47 p. (MIRA 14:1)

1. Moscow. Gosuderstvennyy proyektnyy institut "Fundamentproyekt." (Strip mining) (Soil mechanics)

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Problem of the origin of centers of recrystallization. Dop.AN URSR no.9:1236-1240 '60. (MIRA 13:10)

1. Kiyevskiy politekhnicheskiy institut. Predstavleno akademikom AN USSR V.N.Svechnikovya. (Crystallization)

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DANILOV, V.M., burovoy master

Let us be worthy pupils. Meftianik 5 no. 12:7 D '60.

(MIRA 13:12)

1. Kontora bureniya Mo. 4 tresta "Tuymasaburneft's.

(Tuymasy region --Oil well drilling)
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V.W. Dently: Priority of L.I. Vendeleev in the invention of the acterization perdulum. P. 1492

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1. Stroitel'noye upravleniye "Otdelstroy" tresta "Astrakhanpromzhilstroy".

DANIEU, V. 1.

"Investigation of the Cyclic Viscosity of Steels as a Factor Lowering the Concentration of Stresses." Sub 31 Cct 51, Military Aeronautical Engineering Academy imeni Prof 1. Ye. "Anchovskiy - Cond Temporal Sec.

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SC: Sum. No A20, 9 May 55

PANILOV, V. N.

Metallurgical Abst. Vol. 21 May 1954 Properties of Metals Danley (Pokiedy Akad. Nauk S.S.R., 1831, 78, 65), 1135-1136).—(In Russian]. The dynamic cueff, was found from the ratio of the energy of impact (measured with a ballistic machine) to the energy of intract (measured with a ballistic machine) to the energy of static indeptation of a ball (determined with a Schopper machine, the energy being calculated from the area under the load/depth of impression graph). The specimens were in the form of parallelepipeds measuring 70 × 24 × 12 mm., with one polished surface, and were all annealed above the recrystantemp. The metals studied were Al, Cu, mild steel, Pb. Su, and Pb Su alloys. The curve of dynamic coeff, determined by compression of cylinders, except in the case of the high-m.p. metals, where the indentation method gives greater values, probably because the stresses are more complex. The coeff, for mild steel increases gradually from ~2-1 to ~2-25 as the amount of previous cold work increases from 0 to 47%; that for a rises sharply from ~1-6 at 0% to ~1-95 at 50% and then more gradually to ~2-05 at 57% cold work; that for Al is almost const. at ~1-5 for 0 20% cold work; rises sharply for 20-40%, and is then const. again at ~1-85 for 40-50% reduction. The curve of dynamic coeff, versus comps. for Pb-Su alloys shows two minima (at 10 and 90% Su) and a max, at 50% Su, the values of the cueff, at 0, 10, 20, 40, 60, 80, and 100% Su being 1-81, 1-69, 1-97, 2-6, 2-55, 2-35, and 4-0, resp.—C. V. R. T.

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有部件用**的制作系统各种的影响是是经验的经验的**对对了全种的特殊。

· DAN . D. C. V. A.

USSR/Solid State Physics - Structure of Deformable Materials, E-8

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 34814

Author: Danilov, V. N.

Institution: None

Title: On the Determination of Hardening and Recrystallization of Plastically-

Deformed Metals

Original Periodical: Izv. Kievsk. politekhn. in-ta., 1955, 18, 31-41

Abstract: The temperature dependence of the thermal emf of a thermocouple consisting of a deformed and annealed specimen of the same metal was investigated. Specimens of copper, aluminum, iron, and steel, were studied. The singular points on the curve of emf vs temperature were observed. The temperature at which the maximum value of the thermal emf was observed is the crystallization temperature. The latter depends on the degree of relative deformation, and also on the value of the applied load. For copper at relative deformations of 41, 54, 60 and 80%, the recrystallization temperature is 300, 275, 265, and 200° respectively. For the same relative deformation, the external load raises the thermal emf and reduces the recrystallization temperature. The micro-hardness and the coefficient of thermal emf were studied for copper and

1 of 2

- 1 -

是是创新的政治的企业,但是不是是对于1000年的,但是是是一个企业的企业的,但是是**对于1000年的,但是是一个企业的企业的企业的企业。**

USSR/Solid State Physics - Structure of Deformable Materials, E-8

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 34814

Author: Danilov, V. N.

Institution: None

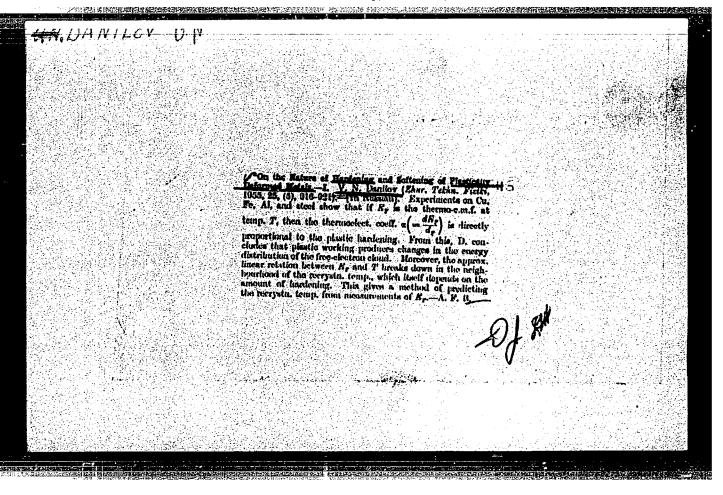
Title: On the Determination of Hardening and Recrystallization of Plastically-Deformed Metals

Original Periodical: Izv. Kievsk. politkhn. in-ta., 1955, 18, 31-41

Abstract: iron specimens. A linear relationship was established between these quantities. Conclusions: (1) hardening of plastically-deformed metals is due to the distortion of the lattice and to the change in the energy spectrum of the collectivized electrons; (2) the coefficient of thermal emf can serve as a characteristic of the hardening; (3) the recrystallization temperature of hardened metals can be determined by measuring the thermal emf.

2 of 2

- 2 -



AUTHOR:

Danilov, V. N., Cana. of Teen. Sc.

TITLE:

On the softening of plastically deformed metals. (O razuprochnenii plasticheski deformirovannykh

13 | 415 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 11

metallov).

PERIODICAL: "Metallovedenie i Obrabotka Metallov" (Metallurgy and Metal Treatment), 1957, No.6, pp. 15 - 16 (U.S.S.R.)

ABSTRACT:

V. S. Ivanova (3) established by high speed filming that the plastic deformation at the flow surface develops suddenly and that thereby each deformed element of the volume has a residual deformation equalling the critical one. In an earlier paper (4) the author showed that hardening and the coefficient of thermo e.m.f. are linearly inter-related and that the softening, being the inverse process, can be determined from the change in the e.m.f. value. Experimental investigation of the softening of plastically deformed metal by measuring the thermo e.m.f. and the microhardness was effected on low carbon steel (0.03 C), pure aluminium and pure copper specimens made of annealed metallic wire. shows the dependence of the thermo e.m.f. coefficient on the annealing time of steel previously deformed by 68%; Fig. 2 shows the respective dependence for copper annealed at 200 C in the case of reductions of 61.8 and 74.5% respectively; Fig.3 shows the respective

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On the softening of plastically deformed metals. (Cont.)

dependence for aluminium, annealed at 105 C, preliminarily reduced by 85.2 and 71.4% respectively; Fig.4 shows the dependence of the microhardness of copper on the annealing time at 200 C with a preliminary reduction of 32% without load (curve 1) and with load (curve 2). It can be seen from the last mentioned curve that the softening of previously plastically deformed copper is more intensive if tensile stresses are applied and this confirms earlier expressed views on the stimulating effect of external loads (6-9). 4 figures and 9 Slavic reference.

ASSOCIATION: Kiev Polytechnical Institute. (Kievskiy Politekh-

nicheskiy Institut).

AVAILABLE:

Card 2/2

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24 (3, 6) SOV/176-59-6-10/20

AUTHORS: Sidyakin, V.G., Danilov, V.N.

'TITLE: Effect of Ductile Deformation on the Hall Constant in Bismuth

PERIODICAL: Inzhenerno-fizicheskiy zhurnal, 1959, Nr o. pp 84-87 (USSR)

ABSTRACT: Ductile deformations in metals were the subject of studies by many investigators: Frenkel' Ref 17, Vonsovskiy, Lashko Ref 27

and Rovinskiy Ref 3. One of the authors, V.N. Danilov Ref 4 arrived at a conclusion that the origination of different thermo-electromotive forces, t.e.m.f., for the same metal is due to changes in energy spectra of collectivized electrons at different degrees of ductile deformation. To check this hypothesis, the authors have experimentally investigated the effect of ductile deformation in bismuth on its Hall constant. The measurements of

the Hall e.m.f. were carried out at a constant intensity of magnetic field, equal to 13,000 oersted, in Bi samples which were first deformed by one-sided pressure from 1 to 10 tons (these measurements yielded the value of Hall constant for deformed sample, $R_{\rm d}$) and then after eliminating internal stresses by annealing in vapor

Card 1/2 of boiling water (these measurements yielded the value of Hall

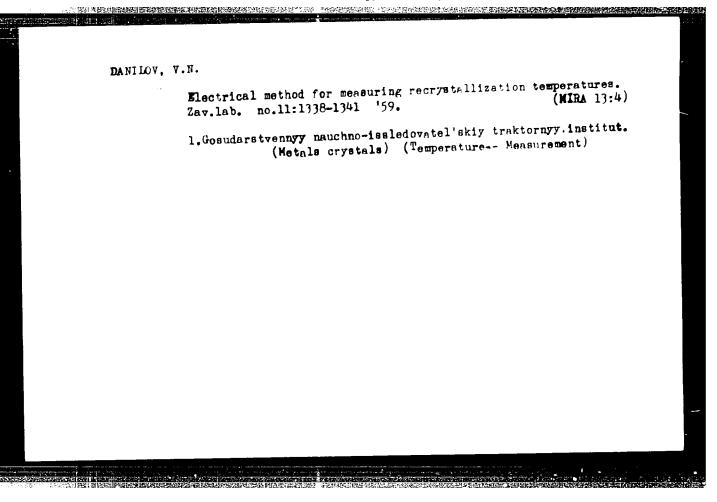
SOV/170-59-6-12/20

Effect of Ductile Deformation on the Hall Constant in Bismutr.

constant for the annealed sample which is considered to be equal to that of an undeformed sample, $R_{\rm O}$). The relationship of the ratio $R_{\rm O}/R_{\rm d}$ on the magnitude of deformation E is presented in Graph 1 and Table 1 from which is to be seen that this ratio has a peak value at a relative deformation of 43%. This is explained by the change in the electronic density distribution and in the energy spectrum of collectivized electrons. A further increase in this ratio leads to the break of the sample. The results arrived at can not be generalized to other metals, in view of the special position of bismuth, being a metal of low duetility. There are: 1 graph, 1 table and 5 Soviet references.

ASSOCIATION: Politekhnicheskiy institut (Polytechnical Institute), Kiyev.

Card 2/2



生态。1966年1月1**年12月12日,1987年12月12日,1987年12月12日** 1987年12日,19

S/1 17/60/000/00+/044/04 / . . . E073/E535

AUTHORS: Danilov, V. N. and Stattkovskiy, G.F

TITLE: Detection of Boundary and Screw Dislocations in Silver
PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Fizika, 1960,

No.4, pp.122-125 + 2 plates

Paper presented at the All Union Conference on Crystal TEXT Structure Defects Kiyev, October, 1959. Dislocation observations were made directly on the surface of polycrystalline silver during thermal etching in air and in vacuum. 99.9% purity silver was used in the experiments since this metal hardly oxidizes at all at elevated temperatures. After rolling, grinding and pelishing, the specimens were placed into a metallographic microscope: individual machining lines could be distinguished on the mirror surface. Annealing at relatively elevated temperatures was by means of an electric current whereby the temperature was measured by a thermocouple and maintained constant for each of the specimens. During the process of annealing changes in the reflecting surface of the silver were observed. At the initial instant of heating all non-uniformities which arose during grinding and polishing disappeared and the surface became perfectly smooth. Card 1/2

S/139/60/000/004/041/044/XX E073/E535

Detection of Boundary and Screw Dislocations in Silver

At the initial instant of heating its reflection is uniform. After a certain time, the grain boundaries and the defects start to be apparent, whereby the grains boundaries and defects show up in the same way which indicates that they have a similar structure Figs.1 3 (plate) show photographs of the surface of the silver with etching dislocation pittings after annealing at 800°C. On one photo the etching pittings are on the surface of one grain and are located in parallel rows. However, there are grains in which the etching pittings are ordered in the centre of the grain and chaotic at the grain boundary. On the basis of the results it is concluded that for detecting boundary and screw dislocations no special In the same way as in germanium and reagents are necessary. tellurium boundary dislocations may occur as ordered or chaotic etched pittings. Screw dislocations can be detected during thermal etching along the growth spiral as well as along the etching spiral There are 6 figures and 36 references 19 Soviet 1 German and 16 English.

ASSOCIATION Kiyevskiy ordena Lenina politekhnicheskiy institut

(Kiyev Lenin Order Polytechnical Institute)

May 6 1959 (initially) SUBMITTED

February 29, 1960 (after revision) Card 2/2

247100

5/17, s/021/60/000/009/008/009 D210/D303

AUTHOR:

Danylov, V.N.

TITLE:

On the problem of the appearance of recrystallization

center

PERIODICAL:

Akademiya nauk Ukrayins'koyi RSR. Dopovidi, no. 9,

1960, 1236 - 1240

TEXT: The author considers different theories about recrystallization and its centers in the light of experiments. It is not possible, for example, to explain why there is no recrystallization for high degrees of deformation (a threshold), below which even at maximum temperatures it is not possible to show any noticeable recrystallization. There is also a supposition that the non-homogeneity of deformation or difference in energies is necessary for the appearance of recrystallization. For example, using the lead samples at temperatures of 150°C in crystals consisting of extended and non-extended particles, the centers of recrystallization always appear on the border between such particles. In his experiments, the au-

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对,因此类似的是一种,我们就是一种的人,我们就是一种的人,我们就是一种的人,我们就是一种的人,我们就是一种的人,我们就是一种的人,我们就是一种的人,我们就是一种的

S/021/60/000/009/008/009 D210/D303

On the problem of the appearance ...

Card 2/3

thor used samples of armco - iron (0.025 % C, 0.09 % Mn. with some traces of Si) or pure silver (99.9 %) baked after deformation in an electric stove at a temperature of 450°C for two hours. For the samples with a macro-gradient the recrystallization was intensive; for the samples with a microgradient it did not start. Only when the temperature was increased to 600°C did the recrystallization start in the microgradient samples. It is generally known that the growth of crystals is connected with screw dislocations. If the appearance of the new subblock is understood as the formation of the recrystallization center, then the screw dislocation at high temperatures may be recrystallization centers, since atomic layers grow round them. On the basis of numerous experiments the author concludes that at low temperatures the mechanism of recrystallization is dislocational and at high temperatures diffusive. Therefore, he comes to the same conclusion as Ya. Ye. Gegusin and I.I. Vishnevskiy (Ref. 32: Fizika metallov i metallovedeniye, 7, 3/1, 1959). There are 5 figures and 33 references: 17 Soviet-bloc and 16 non-Soviet-bloc. The references to the 4 most recent English-language publications read as follows: I.M. Dawson. Proc. Roy. Soc., 214

5/021/60/000/009/008/009 D210/D303

CONTROLLE INCOLLER CONTROL SERVICE CONTROL SERVICE SER

On the problem of the appearance ...

72, 1952; I.M. Dawson, N.G. Anderson, Proc. Roy. Soc. 218, 255, 1955; I.M. Dawson, V. Vand, Proc.Roy. Soc. 206, 555, 1951; B.B. Meckel and R.A. Swalin, J. Appl. Phys., 30, 92, 1959.

ASSOCIATION: Kyyiv'skyy politekhnichnyy instytut (Kyyiv Polytechnic

Institute)

PRESENTED: by Academician V.M. Svyechnikov, AS UkrSSR

SUBMITTED: December 15, 1959

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Card 5/3

3/161/62/004/005/045/055 5139/3102

Deryugin, I. A., Danilov, V. M., and Danilov, V. V.

Visualization of dislocations in nexagonal ferrite single

crystals

.D.T DIDAL: Fizika tverdogo tela, v. 4, no. 5, 1962, 1364-66

smill: ... we effect of a parities on ferromagnetic recording in ferrite consider year and of sarmet structure has already been investigated by C. Dillon and C. Hielson (Shys. Rev. Lett. 3, 30, 199) and 120, 105, 1960), but fewer data are available for the effect of crystal lattice defects, as there is no suitable method of visualizing these. The present authors investigated the 3001 faces of PoPe 1201, and Pe20, single crystals,

or an from an emulsification of ferrite-forming components in PbC.

apeciaens of about 10 mm size were washed in 32 off and then etchel in are aparellioric acid for 40 hrs. An MMM-8 (MIN-2) metallographic forocome of 20.1-fold magnification was used for observation and hotographing. The etch pits on the micrograph of the Regularystal Curi 1 2

CONTROL OF THE PROPERTY OF THE

Jing as [0.4/205/045/055]

Visualization of dislocations ...

Displace in mean small charge and randomly distributed over the whole area of the deciment. Total 200 also shows hexagonal etch yind, but often these satisfied that they are positioned where "jure" dislocations (without impartite) emericant the curface. For cable separation (ferromagnetic quintly and yttrium jurnet) no suitable servestive to visualize dislocations had mitherto been discovered. There are 5 figures.

Houghthalf: Displacify gostianstvenmyy universitet im. T. 3. Shevchenko (Higev State University imeni 3. 3. Shevchenko)

Displace: January 23, 1962

8/658/62/000/010/003/008 Denilov, V.N. **AUTHOR:** Bipolar flow in a particular magnetic field TITLE: Moscow. Fiziko-tekhnicheskiy institut. Trudy, no. 10, 1962. Is-SOURCE: sledovaniya po fizike i radiotekhnike. 67 - 79 The ion flow obtained according to the flow pattern of the given TEXT: task can be expressed as follows: $J_{+} = \frac{1}{9\pi} \sqrt{\frac{2e}{m_{+}}} \frac{u_{0}^{3/2}}{d_{0}^{2}} = \frac{1}{9\pi} \sqrt{\frac{2e}{m_{+}}} \frac{u_{0}^{3/2}}{a^{2}} \left(\frac{a}{d_{0}}\right)^{2},$ where mula the mass of the ion, ju the characteristic density of flow of ions in the case of full volume charge, uo is the characteristic potential difference, and a the characteristic dimension. From this relation, for the determination of the quality of a system as an accelerating gap, the relation Card 1/3